



MPLS Module - Signaling Interface management module description

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1. MPLS Signaling Interface Management Module

MPLSSignalingInterfaceMgmt module provides the interfaces functions between signaling protocol, such as RSVP-TE and CRLDP and MPLS Management module. Using this module, signaling protocol can request network resource check and establishment and release of LSP.

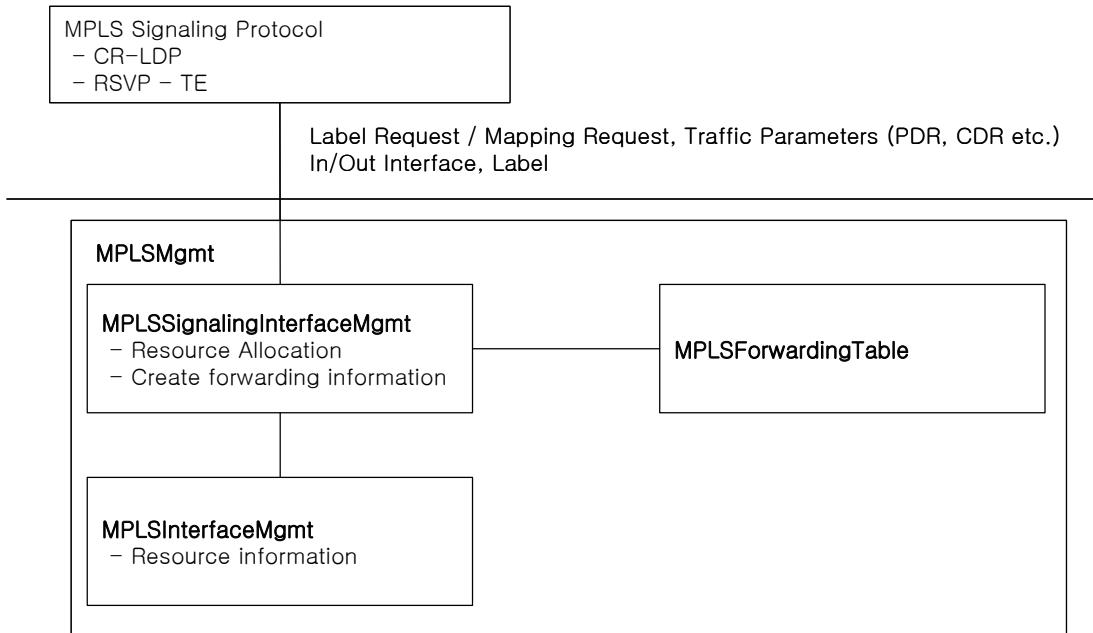


Figure 1 Diagram between Signaling protocol and MPLSSignalingMgmt module

Figure 1 shows the relationship between signaling protocol and this module. When the signaling protocol is requested to establish LSP, it delivers signaling message to Signaling Interface management module. Then this module checks that there is enough network resource with querying to MPLSInterfaceMgmt module. When there is enough resource it notify resource availability to signaling protocol through the Signaling interface module. When LSP binding phase, signaling protocol send binding message to the signaling interface mgmt module. Then requesting MPLSInterfaceMgmt to bind the label and add binding information to the Forwarding table.

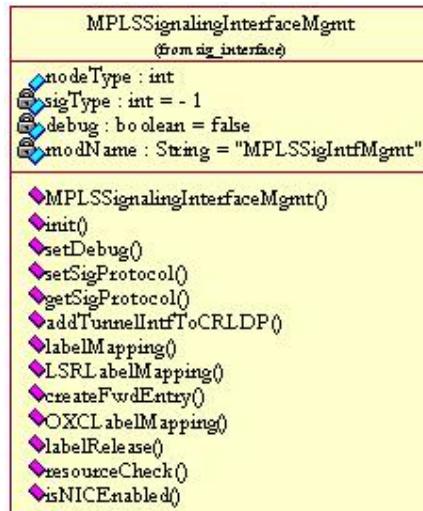


Figure 2 MPLSSignalingInterfaceMgmt Class

Figure 2 shows the `MPLSSignalingInterfaceMgmt` class. This class supports label mapping, resource check, and Label release functions. It also supports the adding Tunnel Interface function.